

UmaPET TF

Polyethylene Terephthalate

Ester Industries Ltd.

Message:

KEY FEATURES

Uma PET TF is transparent film with plain surfaces in both sides.

The film possesses good thermal, mechanical, optical and surface properties along with excellent transparency and dimensional stability.

APPLICATIONS

TF film is widely used for general flexible packaging.

Suitable for Metallising and other Industrial applications.

General Information			
Features	Good Dimensional Stability		
	Good Surface Finish		
	High Clarity		
	Metallizable		
	Opticals		
Uses	Film		
	Industrial Applications		
	Packaging		
Appearance	Clear/Transparent		
Forms	Film		
Physical	Nominal Value	Unit	Test Method
Molding Shrinkage			ASTM D1204
Flow : 150°C, 30 min, 0.0100 mm	2.5	%	
Flow : 150°C, 30 min, 0.0120 mm	2.5	%	
Flow : 150°C, 30 min, 0.0150 mm	2.5	%	
Flow : 150°C, 24 hr, 0.0190 mm	2.0	%	
Flow : 150°C, 30 min, 0.0230 mm	2.0	%	
Across Flow : 150°C, 30 min, 0.0100 mm	0.40	%	
Across Flow : 150°C, 30 min, 0.0120 mm	0.40	%	
Across Flow : 150°C, 30 min, 0.0150 mm	0.40	%	
Across Flow : 150°C, 30 min, 0.0190 mm	0.40	%	
Across Flow : 150°C, 30 min, 0.0230 mm	0.40	%	
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction			ASTM D1894
vs. Itself - Dynamic ¹	0.42		
vs. Itself - Dynamic ²	0.45		
vs. Itself - Dynamic ³	0.45		
vs. Itself - Dynamic ⁴	0.45		

vs. Itself - Dynamic ⁵	0.42		
vs. Itself - Static ⁶	0.48		
vs. Itself - Static ⁷	0.50		
vs. Itself - Static ⁸	0.50		
vs. Itself - Static ⁹	0.50		
vs. Itself - Static ¹⁰	0.48		
Films	Nominal Value	Unit	Test Method
	10		
	12		
	15		
	19		
Film Thickness - Tested	23	µm	
Film Thickness - Recommended / Available	10, 12, 15, 19, 23 µm		
Tensile Strength			ASTM D882
MD : Break, 10 µm	206	MPa	
MD : Break, 12 µm	206	MPa	
MD : Break, 15 µm	186	MPa	
MD : Break, 19 µm	186	MPa	
MD : Break, 23 µm	186	MPa	
TD : Break, 10 µm	216	MPa	
TD : Break, 12 µm	216	MPa	
TD : Break, 15 µm	206	MPa	
TD : Break, 19 µm	206	MPa	
TD : Break, 23 µm	206	MPa	
Tensile Elongation			ASTM D882
MD : Break, 10 µm	100	%	
MD : Break, 12 µm	100	%	
MD : Break, 15 µm	100	%	
MD : Break, 19 µm	100	%	
MD : Break, 23 µm	100	%	
TD : Break, 10 µm	90	%	
TD : Break, 12 µm	90	%	
TD : Break, 15 µm	90	%	

TD : Break, 19 µm	90	%	
TD : Break, 23 µm	90	%	
Yield			Internal Method
10.0 µm	71.4	m ² /kg	
12.0 µm	59.5	m ² /kg	
15.0 µm	47.6	m ² /kg	
19.0 µm	37.6	m ² /kg	
23.0 µm	31.0	m ² /kg	
Wetting Tension - Plain side			ASTM D2578
10.0 µm	44	dyne/cm	
12.0 µm	44	dyne/cm	
15.0 µm	44	dyne/cm	
19.0 µm	44	dyne/cm	
23.0 µm	44	dyne/cm	
Optical	Nominal Value	Unit	Test Method
Haze			ASTM D1003
10.0 µm	3.5	%	
12.0 µm	3.5	%	
15.0 µm	3.5	%	
19.0 µm	4.0	%	
23.0 µm	4.5	%	
NOTE			
1.	23 µm		
2.	15 µm		
3.	12 µm		
4.	10 µm		
5.	19 µm		
6.	19 µm		
7.	15 µm		
8.	12 µm		
9.	10 µm		
10.	23 µm		

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